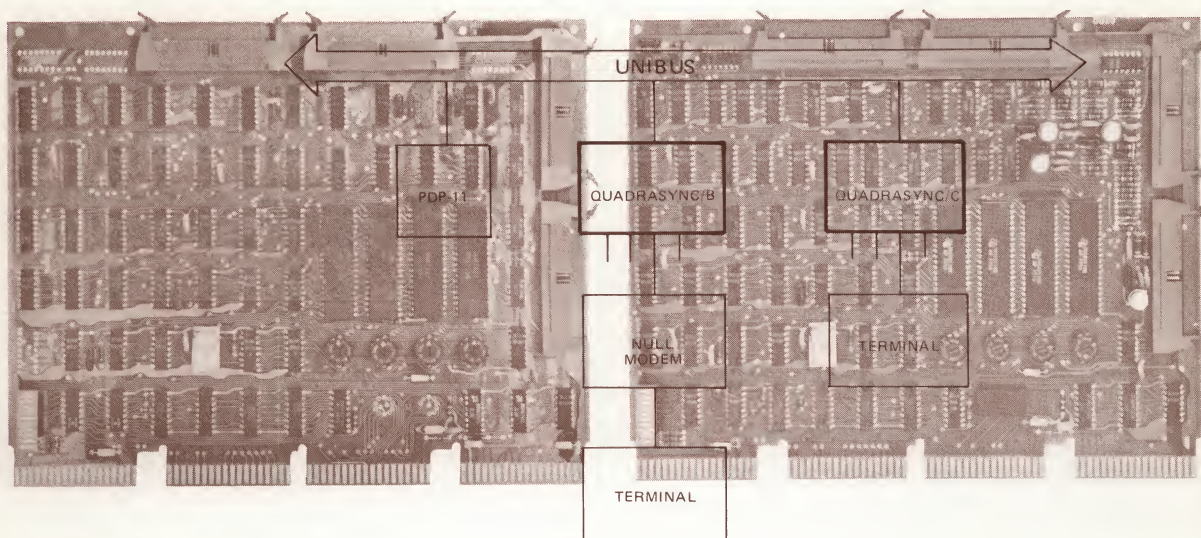# ABLE COMPUTER

QUADRASYNC/B™
QUADRASYNC/C™
(Four Line DL11-B and DL11-C Equivalents)

The space saving QUADRASYNC/B and QUADRASYNC/C provide an interface between the PDP-11* Unibus* and four asynchronous communication channels.

FEATURES

- QUADRASYNC/B and /C offer the features of four DEC* DL11's on one quad-width module

- Each compact unit saves you space and power

- Presents only one unit load for four lines while DEC's DL11 presents one for each line

- On-board switches for address and vector selection add flexibility without the need for jumpers

- Data format is jumper selectable for 5, 6, 7, or 8 data bits and 1, 1.5, or 2 stop bits

- Rotary switches allow easy selection of baud rates

- Seven baud rates are independently selectable for each channel

- QUADRASYNC/B and /C are compatible with DEC operating system software.

GENERAL DESCRIPTION

QUADRASYNC/B and /C provide full duplex or half duplex communication between a PDP-11 and four asynchronous communication channels. They receive serial data from peripheral devices, convert it to parallel words and present it to the Unibus. They accept parallel data from the bus and convert it to serial data for transmission to peripheral devices.

QUADRASYNC/B provides connection to EIA/CCITT terminals; it supplies a voltage level interface and connector whose signals conform to EIA standard RS232C and CCITT Recommendation V.24. Leads supported include: Transmit, Receive, Request to Send, and Data Terminal Ready. QUADRASYNC/C provides an interface to 20ma current loop terminals.

QUADRASYNC/B and /C are quad-width modules with four, 40-pin DEC compatible Berg connectors. EIA and current loop cables are ordered separately.

DATA FORMAT

Data format for QUADRASYNC/B and /C is serial with a choice of 1, 1.5, or 2 stop bits and 5, 6, 7, or 8 data bits. Data and stop bits are jumper selectable.

DATA RATES

QUADRASYNC/B and /C offer seven selectable baud rates. Transmitter and receiver operate at the same baud rate. The user may choose from the following rates:

9600	2400	600	150
4800	1200	300	

ADDRESS SELECTION

Address selection is via on-board pencil switches. Addresses are in the range 774000 through 777776. Each QUADRASYNC/B and /C requires 16 contiguous word locations for addresses starting on boundaries of 00 or 40.

VECTOR SELECTION

Vector selection is via on-board pencil switches. Vectors are in the range 000 through 774. Each QUADRASYNC/B and QUADRASYNC/C requires 16 contiguous locations for vectors starting on boundaries of 00 or 40.

REGISTERS

QUADRASYNC/B and /C have four addressable registers as follows:

Receiver Status Register (RCSR)	7XXXX0
Receiver Buffer Register (RBUF)	7XXXX2
Transmitter Status Register (XCSR)	7XXXX4
Transmitter Buffer Register (XBUF)	7XXXX6

SPECIAL CONSIDERATIONS

1. Address and vector locations are not independently selectable for the four channels but require 16 contiguous locations that are specified by one set of switches.
2. Address and vector locations must begin on boundaries of 00 or 40.
3. The QUADRASYNC/C is active receive and transmit.

ORDERING INFORMATION

Model	ABLE Order Number	Description
QUADRASYNC/B EIA Version	10015	Quad-width module for connection to four EIA/CCITT terminals. Does not include cable; use cable number 90000008.
QUADRASYNC/C Current Loop Version	10022	Quad-width module for connection to four current loop devices. Does not include cable; use cable number 90000011.

Accessory	ABLE Order Number	Description
Cable for QUADRASYNC/B	90000008	25 foot cable equivalent to the DEC BC03L cable.
Cable for QUADRASYNC/C	90000011	25 foot cable equivalent to the DEC KL8/E cable.

SPECIFICATIONS

Bus Loading: 1 unit load

Power Required:		Voltage	Current
QUADRASYNC/B		+5 volts	1.95 amps
		+15 volts	0.10 amps
		−15 volts	0.20 amps
QUADRASYNC/C		+5 volts	2.15 amps
		+15 volts	0 amps
		−15 volts	0.20 amps

ABLE has created a veritable store of DEC computer enhancements. ABLE's unique products help you get more out of your PDP-11. Look at our current product listing . . . you will find solutions of genuine value.

SPECIAL MEMORY PRODUCTS

SCAT/45 (330 nsec Fastbus Memory)
CACHE/45 (2KB Fastbus Cache)
CACHE/434 (8KB Unibus Cache)
CACHE/440 (8KB Unibus Cache)

COMMUNICATIONS PRODUCTS

QUADRASYNC (4-line DL11)
QUADRASYNC/LSI (4-line DLV11)
QUADRACALL (4-line DN11)
DMAX/16 (DH11 Replacement)
DM/16 (DM11-BB Replacement)
DV/16 (DV11 Replacement)

GENERAL PURPOSE PRODUCTS

INTERLINK/UNI (DR11-B + DA11)
INTERLINK/LSI (DRV11-B + Link)
UNIVERTER (Q Bus to Unibus)
DUAL I/O (Dual DR11-C)
REBUS (DB11-A Replacement)
EMULOADER (ODT/Boot Loader)
UNIFACE (Universal IOP)

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ABLE COMPUTER

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